```
$ docker run -it ubuntu:16.04 /bin/bash
Unable to find image 'ubuntu:16.04' locally
16.04: Pulling from library/ubuntu
61e03ba1d414: Pull complete
4afb39f216bd: Pull complete
e489abdc9f90: Pull complete
999fff7bcc24: Pull complete
Digest: sha256:6aab78d1825b4c15c159fecc62b8eef4fdf0c693a15aace3a605ad44e5e2df0c
Status: Downloaded newer image for ubuntu:16.04
root@f04333ba9ce5:/# ping google.com
bash: ping: command not found
root@f04333ba9ce5:/# apt-get update
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Get:2 http://archive.ubuntu.com/ubuntu xenial InRelease [247 kB]
Get:3 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [2051 kB]
Get:4 http://security.ubuntu.com/ubuntu xenial-security/restricted amd64 Packages [15.9 kB]
Get:5 http://security.ubuntu.com/ubuntu xenial-security/universe amd64 Packages [984 kB]
Get:6 http://security.ubuntu.com/ubuntu xenial-security/multiverse amd64 Packages [8820 B]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:8 http://archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Get: 9 http://archive.ubuntu.com/ubuntu xenial/main amd64 Packages [1558 kB]
Get:10 http://archive.ubuntu.com/ubuntu xenial/restricted amd64 Packages [14.1 kB]
Get:11 http://archive.ubuntu.com/ubuntu xenial/universe amd64 Packages [9827 kB]
Get:12 http://archive.ubuntu.com/ubuntu xenial/multiverse amd64 Packages [176 kB]
Get:13 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 Packages [2559 kB]
Get:14 http://archive.ubuntu.com/ubuntu xenial-updates/restricted amd64 Packages [16.4 kB]
Get:15 http://archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Packages [1544 kB]
Get:16 http://archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packages [26.2 kB]
Get:17 http://archive.ubuntu.com/ubuntu xenial-backports/main amd64 Packages [10.9 kB]
Get:18 http://archive.ubuntu.com/ubuntu xenial-backports/universe amd64 Packages [12.7 kB]
Fetched 19.4 MB in 2s (6515 kB/s)
Reading package lists... Done
root@f04333ba9ce5:/# apt-get install iputils-ping
Reading package lists... Done
Building dependency tree
  eading state information... Done
ne following additional packages will be installed:
libffi6 libgmp10 libgnutls-openss127 libgnutls30 libhogweed4 libidn11 libnettle6 libp11-kit0 libtasn1-6
  uggested packages:
  he following NEW packages will be installed:
iputils-ping libffi6 libgmp10 libgnutls-openss127 libgnutls30 libhogweed4 libidn11 libnettle6 libp11-kit0 libtasn1-6
upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
Need to get 1307 kB of archives.

After this operation, 3781 kB of additional disk space will be used.

Do you want to continue? [Y/n] Y
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu xenial/main amd64 libgmp10 amd64 2:6.1.0+dfsg-2 [240 kB]
Get:2 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libnettle6 amd64 3.2-1ubuntu0.16.04.2 [93.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libhogweed4 amd64 3.2-1ubuntu0.16.04.2 [136 kB]
Get:4 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libidn11 amd64 1.32-3ubuntu1.2 [46.5 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial/main amd64 libfi16 amd64 3.2.1-4 [17.8 kB]
Get:6 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libpl1-kit0 amd64 0.23.2-5-ubuntu16.04.2 [107 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libpl1-kit0 amd64 0.23.2-5-ubuntu16.04.2 [43.5 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libtasn1-6 amd64 4.7-3ubuntu0.16.04.3 [43.5 kB]
Get:8 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libgnutls30 amd64 3.4.10-4ubuntu1.8 [548 kB]
  et:9 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libgnutls-openss127 amd64 3.4.10-4ubuntu1.8 [21.9 kB]
Get:10 http://archive.ubuntu.com/ubuntu xenial/main amd64 iputils-ping amd64 3:20121221-5ubuntu2 [52.7 kB]
Fetched 1307 kB in 0s (1782 kB/s)
  ebconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libgmp10:amd64.
(Reading database ... 4785 files and directories currently installed.)
Preparing to unpack .../libgmp10_2%3a6.1.0+dfsg-2_amd64.deb ...
Unpacking libgmp10:amd64 (2:6.1.0+dfsg-2) ...
Selecting previously unselected package libnettle6:amd64.
Preparing to unpack .../libnettle6_3.2-1ubuntu0.16.04.2_amd64.deb ...
Unpacking libnettle6:amd64 (3.2-lubuntu0.16.04.2) ...
Selecting previously unselected package libhogweed4:amd64.
Preparing to unpack .../libhogweed4_3.2-lubuntu0.16.04.2_amd64.deb ...
Unpacking libhogweed4:amd64 (3.2-lubuntu0.16.04.2) ...
Selecting previously unselected package libidn11:amd64.
Preparing to unpack .../libidn11_1.32-3ubuntu1.2_amd64.deb ...
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Unpacking libidn11:amd64 (1.32-3ubuntu1.2) ..
Selecting previously unselected package libffi6:amd64.
Preparing to unpack .../libffi6_3.2.1-4 amd64.deb ...
Unpacking libffi6:amd64 (3.2.1-4) ...
Selecting previously unselected package libp11-kit0:amd64.
Preparing to unpack .../libp11-kit0_0.23.2-5~ubuntu16.04.2_amd64.deb ...
Unpacking libp11-kit0:amd64 (0.23.2-5~ubuntu16.04.2) ...
Selecting previously unselected package libtasn1-6:amd64.
Preparing to unpack .../libtasn1-6 4.7-3ubuntu0.16.04.3 amd64.deb ...
Unpacking libtasn1-6:amd64 (4.7-3ubuntu0.16.04.3) ...
Selecting previously unselected package libgnutls30:amd64.
Preparing to unpack .../libgnutls30_3.4.10-4ubuntu1.8_amd64.deb ...
Unpacking libgnutls30:amd64 (3.4.10-4ubuntu1.8) ...
Selecting previously unselected package libgnutls-openss127:amd64.
Preparing to unpack .../libgnutls-openss127_3.4.10-4ubuntu1.8_amd64.deb ...
Unpacking libgnutls-openss127:amd64 (3.4.10-4ubuntu1.8) ...
Selecting previously unselected package iputils-ping.
Preparing to unpack .../iputils-ping 3%3a20121221-5ubuntu2 amd64.deb ...
Unpacking iputils-ping (3:20121221-5ubuntu2) ...
Processing triggers for libc-bin (2.23-Oubuntu11.3) ...
Setting up libgmp10:amd64 (2:6.1.0+dfsg-2) ..
Setting up libnettle6:amd64 (3.2-1ubuntu0.16.04.2) ...
Setting up libhogweed4:amd64 (3.2-1ubuntu0.16.04.2) ...
Setting up libidn11:amd64 (1.32-3ubuntu1.2) ...
Setting up libffi6:amd64 (3.2.1-4) ...
Setting up libp11-kit0:amd64 (0.23.2-5~ubuntu16.04.2) ...
Setting up libtasn1-6:amd64 (4.7-3ubuntu0.16.04.3) ...
Setting up libgnutls30:amd64 (3.4.10-4ubuntu1.8) ...
Setting up libgnutls-openssl27:amd64 (3.4.10-4ubuntu1.8) ...
Setting up iputils-ping (3:20121221-5ubuntu2) ...
Setcap is not installed, falling back to setuid
Processing triggers for libc-bin (2.23-Oubuntu11.3) ...
root@f04333ba9ce5:/# ping google.com
PING google.com (142.251.33.206) 56(84) bytes of data.
64 bytes from iad23s96-in-f14.1e100.net (142.251.33.206): icmp_seq=1 ttl=113 time=1.30 ms
64 bytes from iad23s96-in-f14.1e100.net (142.251.33.206): icmp_seq=3 ttl=113 time=1.21 ms
64 bytes from iad23s96-in-f14.1e100.net (142.251.33.206): icmp_seq=4 ttl=113 time=1.36 ms
--- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 1.214/1.301/1.362/0.059 ms
root@f04333ba9ce5:/# docker ps -a
eash: docker: command not found
 oot@f04333ba9ce5:/# exit
exit
[node1] (local) root@192.168.0.28 ~
 docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS
f04333ba9ce5 ubuntu:16.04 "/bin/bash" About a minute ago Exited (127) 2 seconds ago
                                                                                      PORTS
                                                                                               quirky_sinoussi
    1] (local) root@192.168.0.28 ~
ker commit -a 'David Elner' -m
$ docker commit -a 'David Elner' -m 'Added ping utility' f04 kaldr4/ping
sha256:261ff04e06f3659e8f4b4adb2823bf4ec2cd5b0eae9be389889e7715af884776
$ docker images
REPOSITORY
                 TAG
                             IMAGE ID
                                                CREATED
                                                                      SIZE
kaldr4/ping
                 latest
                              261ff04e06f3
                                                19 seconds ago
                                                                      170MB
ubuntu
                 16.04
                             065cf14a189c
                                                3 days ago
                                                                      135MB
 nodel] (local) root@192.168.0.28 ^
$ docker run -it --rm kaldr4/ping /bin/bash
root@935dedda6d84:/# ping google.com
PING google.com (172.217.13.78) 56(84) bytes of data.
64 bytes from iad23s60-in-f14.1e100.net (172.217.13.78): icmp_seq=1 ttl=112 time=1.34 ms
64 bytes from iad23s60-in-f14.1e100.net (172.217.13.78): icmp_seq=2 ttl=112 time=1.44 ms
64 bytes from iad23s60-in-f14.1e100.net (172.217.13.78): icmp seq=3 tt1=112 time=1.38 ms
64 bytes from iad23s60-in-f14.1e100.net (172.217.13.78): icmp seq=4 tt1=112 time=1.41 ms
°C
 -- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms rtt min/avg/max/mdev = 1.349/1.398/1.448/0.044 ms
root@935dedda6d84:/#
root@935dedda6d84:/#
```